

NAME

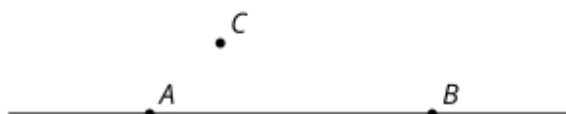
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Curated Practice Problem Set

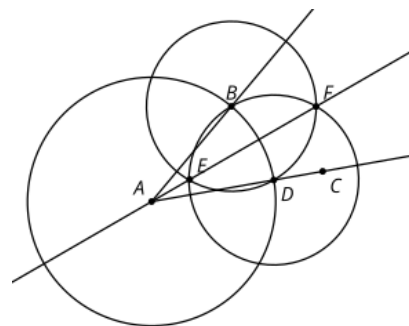
Unit 1 Lesson 6 Cumulative Practice Problems

1. Which of the following constructions would help to construct a line passing through point C that is perpendicular to the line AB ?



- A. Construction of an equilateral triangle with one side AB
 - B. Construction of a hexagon with one side BC
 - C. Construction of a perpendicular bisector through C
 - D. Construction of a square with one side AB
2. Two distinct lines, ℓ and m , are each perpendicular to the same line n . Select **all** the true statements.
- A. Lines ℓ and m are perpendicular.
 - B. Lines ℓ and n are perpendicular.
 - C. Lines m and n are perpendicular.
 - D. Lines ℓ and m are parallel.
 - E. Lines ℓ and n are parallel.
 - F. Lines m and n are parallel.

3. This diagram is a straightedge and compass construction of the bisector of angle BAC . Only angle BAC is given. Explain the steps of the construction in order. Include a step for each new circle, line, and point.



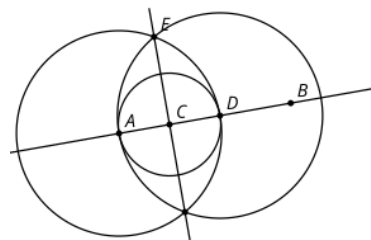
(From Unit 1, Lesson 5.)

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4. This diagram is a straightedge and compass construction of a line perpendicular to line AB passing through point C . Which segment has the same length as segment EA ?



A. EC

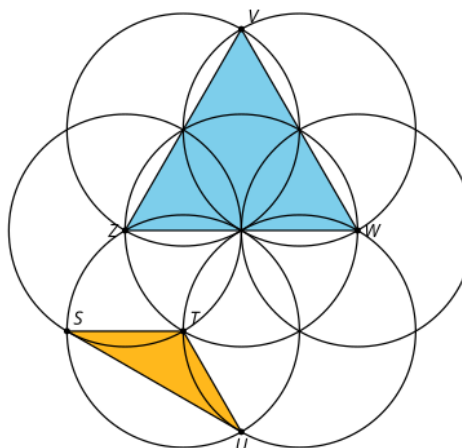
B. ED

C. BE

D. BD

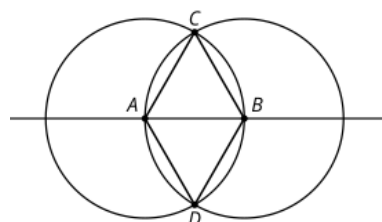
(From Unit 1, Lesson 5.)

5. This diagram is a straightedge and compass construction. Which triangle is equilateral? Explain how you know.



(From Unit 1, Lesson 4.)

6. In the construction, A is the center of one circle, and B is the center of the other. Name the segments in the diagram that have the same length as segment AB .



(From Unit 1, Lesson 2.)

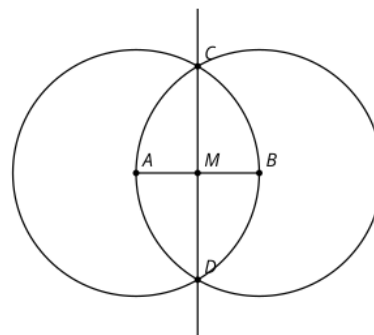
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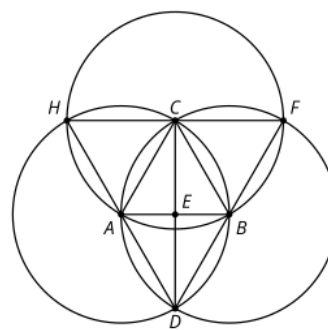
7. This diagram is a straightedge and compass construction. A is the center of one circle, and B is the center of the other.

- Name a pair of perpendicular line segments.
- Name a pair of line segments with the same length.



(From Unit 1, Lesson 3.)

8. A , B , and C are the centers of the 3 circles. Select **all** the segments that are congruent to AB .



A. HF

B. HA

C. CE

D. CD

E. BD

F. BF

(From Unit 1, Lesson 4.)